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› forimo Propane Tankless Water Heater TC-045 Instruction Manual

**forimo TC-045**

# forimo Propane Tankless Water Heater TC-045 Instruction Manual

Model: TC-045

## 1. INTRODUCTION

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This manual provides essential information for the safe and efficient operation, installation, and maintenance of your forimo TC-045 Propane Tankless Water Heater. Please read all instructions carefully before installation and use. Retain this manual for future reference.



Figure 1: forimo TC-045 Propane Tankless Water Heater and included exhaust pipe.

## 2. IMPORTANT SAFETY INFORMATION

**WARNING: Improper installation, adjustment, alteration, service, or maintenance can cause property damage, injury, or death. Read the installation, operating, and maintenance instructions thoroughly before installing or servicing this equipment.**

- Ensure proper ventilation. This product requires installation with adequate ventilation and a smoke exhaust pipe.
- Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.
- Verify all gas and water connections are secure and leak-free before operation.
- In cold weather, if the water heater is not used for an extended period, open the pressure relief valve to drain residual water and prevent freezing damage.
- This appliance must be installed by a qualified professional in accordance with all local codes and

regulations.

### 3. PRODUCT FEATURES

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The forimo TC-045 Propane Tankless Water Heater is designed for efficient, on-demand hot water supply. Key features include:

- **On-Demand Heating:** Activates only when hot water is needed, reducing energy consumption compared to traditional tank heaters.
- **High Efficiency:** Provides 6.3 gallons per minute (GPM) of hot water with a maximum temperature increase of 167°F.
- **Advanced Safety Protections:** Includes overheating protection, low water flow protection, water pressure protection, pipe clogging protection, flame-out protection, overcurrent protection, air pressure protection, and frost protection.
- **Durable Construction:** Crafted from stainless steel with a built-in oxygen-free copper water tank for high temperature and corrosion resistance.
- **LED Smartdigital Display:** Allows for effortless temperature adjustment between 86°F and 167°F.
- **Intelligent Thermostatic Control:** Maintains a constant desired temperature.
- **High-Speed Anti-Backflow Fan:** Prevents backflow and accidental flameout, ensuring stable combustion.
- **Seasonal Modes:** Features Summer and Winter modes to optimize propane gas usage.

# 6.3 GPM PROPANE GAS TANKLESS WATER HEATER



## RAPID TEMPERATURE INCREASE

High-power ignition device, more than the traditional faster to reach the ideal temperature, improve thermal efficiency, so you do not have to wait for hot water.

- Powerful DC motor
- Maintain a Constant Temperature
- Rapid Heating
- Overheating Protection
- Low Water Flow Protection
- Water Pressure Protection
- Pipe Clogging Protection
- Timeout Protection
- Flame-Out Protection
- Overcurrent Protection
- Air Pressure Protection
- Frost Protection

Figure 2: Overview of rapid temperature increase and multi-protection features.



Figure 3: Intelligent Sectional Combustion Technology for consistent temperature.



Figure 4: Premium Oxygen-Free Copper Exchanger for efficient heat transfer.

#### 4. SPECIFICATIONS

# PRODUCT SPECIFICATIONS

Dimension: LengthxWidthxHigh: 23.22x6.3x14.56inch

23.22 inch

6.3 inch

14.56 inch

LED smart digital display

Sturdy bottom inlet Reasonable distribution of connecting pipes

Portable design Easy to disassemble for inspection

Figure 5: Product dimensions and LED display overview.

Specification	Detail
Brand	forimo
Model Number	TC-045
Product Dimensions (W x H)	14.56" x 23.22"
Item Weight	32.9 pounds
Maximum Flow Rate	6.3 Gallons Per Minute (GPM)
Maximum Temperature	167 Degrees Fahrenheit
Minimum Water Pressure	3.6 PSI
Heat Output	145,000 BTU/hour (Maximum)
Wattage	41649 watts
Mounting Type	Wall
Color	Black
UPC	717012462497

## 5. INSTALLATION

Installation should be performed by a qualified professional. Ensure all local codes and regulations are followed.

### 5.1 Mounting

- Select a suitable wall location that allows for proper ventilation and access for maintenance.
- Mount the unit securely to a sturdy wall structure.

### 5.2 Water Connections

- Connect the cold water inlet to a 1/2" NPT water supply.
- Connect the hot water outlet to a 1/2" NPT hot water line.
- Ensure all connections are sealed properly to prevent leaks.

### 5.3 Gas Connection

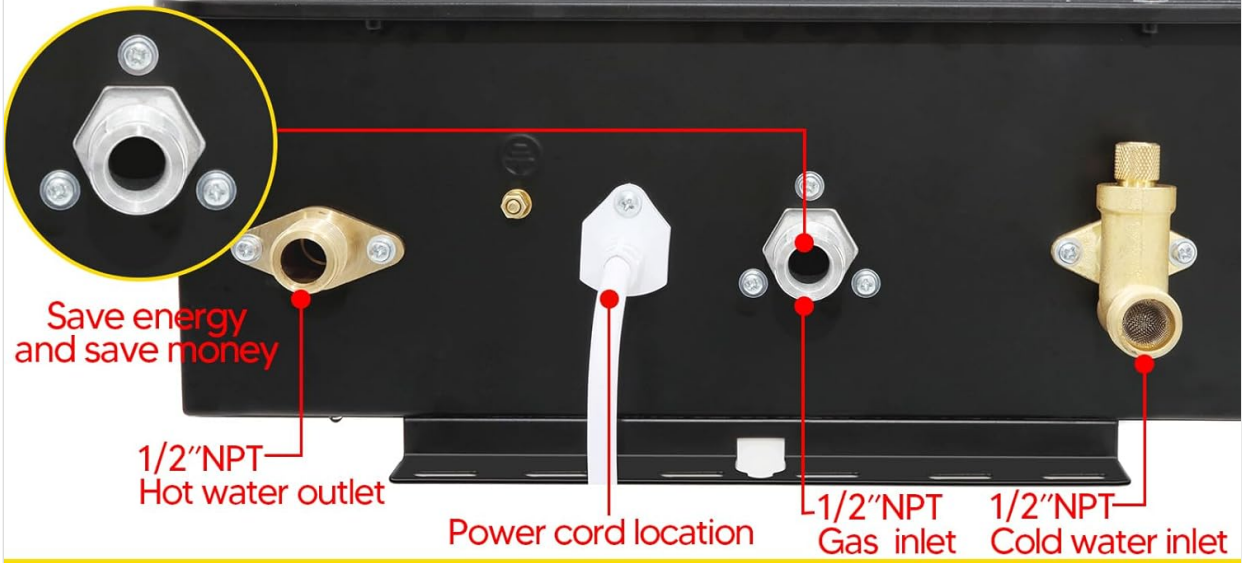
- Connect the propane gas inlet to a 1/2" NPT gas supply.
- Use appropriate gas-rated fittings and ensure a leak-free connection.

### 5.4 Venting

- Install the provided 2.5" horizontal vent pipe to ensure proper exhaust of combustion gases.
- Ensure the exhaust pipe is correctly routed to the outside and maintains proper clearances from combustible materials.
- Proper ventilation is critical for safe operation and to improve air quality.

# EXCELLENT ENERGY EFFICIENCY

The hot water heater adjusts power input based on flow rate and temp setting in real time



## Summer/Winter 2 modes to save up to 60% on your propane gas costs



Figure 6: Connection points for water and gas.

# LED SMARTDIGITAL DISPLAY

LED smartdigital display effortlessly adjust the temperature between 86°F-167°F according to your preferences

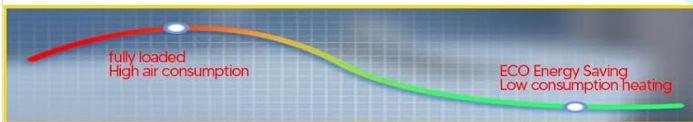
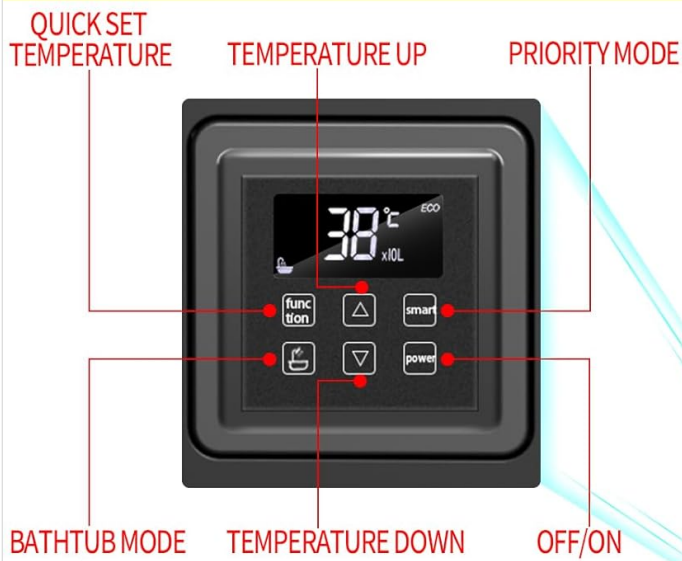


Figure 7: Exhaust pipe installation detail and LED display overview.



Figure 8: Simplified installation diagram.

## 6. OPERATION

The forimo TC-045 features an LED smartdigital display for easy control.

## 6.1 Control Panel Overview

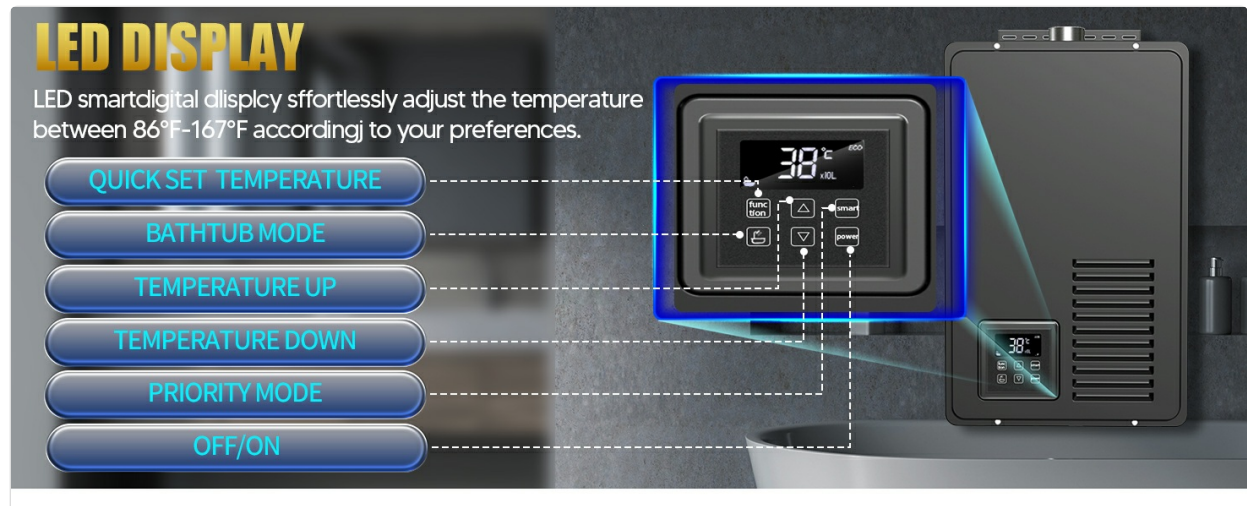


Figure 9: LED Smartdigital Display and control buttons.

- **ON/OFF Button:** Powers the unit on or off.
- **Temperature UP/DOWN Buttons:** Adjust the desired water temperature between 86°F and 167°F.
- **Quick Set Temperature:** Pre-set temperature options for convenience.
- **Bathtub Mode:** Optimizes heating for filling a bathtub.
- **Priority Mode:** Prioritizes hot water delivery to specific fixtures.
- **ECO Energy Saving:** Reduces energy consumption for lower demand.

## 6.2 Initial Startup

1. Ensure all water and gas connections are secure and the unit is properly vented.
2. Open the main gas supply valve.
3. Open a hot water faucet in your home to allow water to flow through the unit.
4. Press the ON/OFF button on the control panel. The unit will detect water flow and begin heating.
5. Adjust the temperature using the UP/DOWN buttons to your desired setting.

## 6.3 Simultaneous Water Supply

This unit is designed to provide hot water for 3-4 points simultaneously, such as a bathroom, kitchen, and laundry. The actual performance may vary based on incoming water temperature and flow rates.

# 3-4 POINTS SIMULTANEOUS WATER SUPPLY

Endless Hot Water For Your Entire Home



Figure 10: Example of simultaneous hot water supply to multiple points.

## 7. MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your water heater.

- **Annual Inspection:** Have a qualified technician inspect the unit annually, including gas connections, water lines, and the exhaust system.
- **Heat Exchanger Cleaning:** Depending on water quality, the heat exchanger may require periodic descaling to remove mineral buildup. This should be performed by a professional.
- **Ventilation System Check:** Regularly inspect the exhaust pipe for any obstructions, damage, or leaks. Ensure proper airflow.
- **Exterior Cleaning:** Clean the exterior of the unit with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- **Cold Weather Precautions:** If the unit is exposed to freezing temperatures and will not be used, drain the water from the system to prevent damage.

## 8. TROUBLESHOOTING

This section addresses common issues you might encounter with your forimo TC-045 water heater.

Problem	Possible Cause	Solution
No hot water or inconsistent temperature	Low water pressure, gas supply issue, sensor malfunction, mineral buildup.	Check water supply pressure (minimum 3.6 PSI). Verify gas supply is open. Ensure no gas leaks. If issue persists, contact a qualified technician for sensor check or descaling.
Unit displays "E2" error code	This code typically indicates a flame failure or ignition issue.	Check gas supply. Ensure proper ventilation and no exhaust blockages. Turn the unit off and on again. If the error persists, contact a qualified technician.
Water goes cold during shower	Insufficient flow rate, unit cycling off due to safety, or thermostat issue.	Ensure adequate water flow. Check for any error codes. If the problem is intermittent, it may indicate a thermostat issue requiring professional service.
Unit does not turn on	No power, no water flow, or gas supply off.	Verify power connection. Open a hot water faucet to initiate flow. Check if the gas supply valve is open.

For issues not listed here or if solutions do not resolve the problem, contact forimo customer support or a certified technician.

## 9. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please refer to the warranty card included with your product or contact forimo customer service directly. Keep your purchase receipt as proof of purchase.

**forimo Customer Service:** Please visit the official forimo website or refer to the contact information provided in your product packaging.